

Claims

1. (Currently amended) A method for effecting PN code sequence changes, the method comprising:

determining an interceptor threat level;

determining a first transmitter PN code sequence associated with said interceptor threat level [[:]] ,wherein determining the first transmitter PN code sequence associated with said interceptor threat level further comprises:

changing the first transmitter PN code sequence to a second transmitter PN code sequence;

encoding a second transmitter PN signal with the second transmitter PN code sequence;

transmitting the second transmitter PN encoded signal, wherein transmitting the second transmitter PN encoded signal further comprises transmitting the second transmitter PN encoded signal during a second time frame;

encoding a first transmitter PN signal with the first transmitter PN code sequence;

transmitting the first transmitter PN encoded signal, wherein transmitting the first transmitter PN encoded signal further comprises transmitting the first transmitter PN encoded signal during a first transmitter time frame;

receiving the first transmitter PN encoded signal, wherein receiving the first transmitter PN encoded signal further

comprises receiving the first transmitter PN encoded signal during a first receiver time frame; and

PN decoding the first transmitter PN encoded signal.

2. (Canceled)

3. (Currently Amended) A method as in claim [[2]] 1 wherein the first transmitter PN code sequence comprises substantially a six millisecond time frame.

4. (Currently Amended) A method as in claim [[2]] 1 wherein the second transmitter PN code sequence comprises substantially a six millisecond time frame.

5. (Currently Amended) A method as in claim [[2]] 1 wherein changing the first transmitter PN code sequence to the second transmitter PN code sequence comprises:

correlating an integer variable N to said interceptor threat level; and

phase shifting the first transmitter PN code sequence N chips to form the second transmitter PN code sequence.

6. (Original) A method as in claim 1 wherein PN decoding the first transmitter PN encoded signal comprises:

correlating the first transmitter PN encoded signal with a first receiver PN code sequence, wherein the first receiver PN code sequence is associated with said interceptor threat level.

7. (Original) A method as in claim 6 wherein correlating the first transmitter PN encoded signal with the first receiver PN code sequence further comprises correlating the first transmitter PN encoded signal with the first receiver PN code sequence during the first receiver time frame.

8. (Original) A method as in claim 6 wherein PN decoding the first transmitter PN encoded signal further comprises:

correlating the first transmitter PN encoded signal with a second receiver PN code sequence, wherein the second receiver PN code sequence is associated with said interceptor threat level.

9. (Original) A method as in claim 8 wherein correlating the first transmitter PN encoded signal with the second receiver PN code sequence further comprises correlating the first transmitter PN encoded signal with the second receiver PN code sequence during the first receiver time frame.

10. (Original) A method as in claim 9 wherein correlating the first transmitter PN encoded signal with the second receiver PN code sequence during the first receiver time frame further comprises correlating the first transmitter PN encoded signal with the second receiver PN code sequence during a subset time frame of the first receiver time frame.

11. (Currently amended) A communications system, the communications system comprising:

a transmitter, wherein the transmitter comprises:

a transmitter controller adapted to determine an interceptor threat level;

a first transmitter PN generator adapted to generate a first transmitter PN code sequence associated with said interceptor threat level;

a transmitter modulator adapted to encode a first transmitter PN signal with the first transmitter PN code sequence;

a transmitter antenna adapted to transmit the first transmitter PN encoded signal, wherein the transmitter antenna adapted to transmit the first transmitter PN encoded signal further comprises:

the transmitter antenna adapted to transmit the first transmitter PN encoded signal during a first transmitter time frame;

a receiver, the receiver comprising:

a receiver antenna adapted to receive the first transmitter PN encoded signal during a first receiver time frame; [[and]]

a receiver demodulator adapted to PN decode the first transmitter PN encoded signal[.];and

a second transmitter PN generator for generating a second transmitter PN code.

12. (Canceled)

13. (Currently amended) A communications system as in claim [[12]]
11 wherein the receiver demodulator adapted to PN decode the first
transmitter PN encoded signal further comprises:

a first correlator adapted to correlate the first transmitter
PN encoded signal with the first transmitter PN code sequence;
and

a first threshold detector coupled to the first correlator,
wherein the first threshold detector is adapted to detect
a PN correlated signal from the first correlator.

14. (Original) A communications system as in claim 13 wherein the
receiver demodulator adapted to PN decode the first transmitter PN
encoded signal further comprises:

a second correlator adapted to correlate the first transmitter
PN encoded signal with the second transmitter PN code;

a second threshold detector coupled to the second correlator,
wherein the second threshold detector is adapted to detect a
PN correlated signal from the second correlator.

15. (Currently amended) A program storage device readable by a
machine, tangibly embodying a program of instructions executable by
the machine to perform a for effecting PN code sequence changes, the
instructions comprising:

determining an interceptor threat level;

determining a first transmitter PN code sequence associated
with said interceptor threat level, wherein instructions

determining the first transmitter PN code sequence associated with said interceptor threat level further comprises:

changing the first transmitter PN code sequence to a second transmitter PN code sequence;

encoding a second transmitter PN signal with the second transmitter PN code sequence;

transmitting the second transmitter PN encoded signal, wherein transmitting the second transmitter PN encoded signal further comprises transmitting the second transmitter PN encoded signal during a second time frame;

encoding a first transmitter PN signal with the first transmitter PN code sequence; and

transmitting the first transmitter PN encoded signal, wherein transmitting the first transmitter PN encoded signal further comprises transmitting the first transmitter PN encoded signal during a first transmitter time frame.

16. (Canceled)

17. (Currently amended) A program storage device as in claim 15 wherein instructions changing the first transmitter PN code sequence to the second transmitter PN code sequence comprises:

correlating an integer variable N to said interceptor threat level; and

phase shifting the first transmitter PN code sequence N chips to form the second transmitter PN code sequence.

18. (Original) A program storage device as in claim 15 further tangibly embodying a program of instructions executable by the machine for determining PN code sequence changes, the instructions comprising:

receiving the first transmitter PN encoded signal, wherein receiving the first transmitter PN encoded signal further comprises receiving the first transmitter PN encoded signal during a first receiver time frame; and

PN decoding the first transmitter PN encoded signal, wherein PN decoding comprises correlating the first transmitter PN encoded signal with a first receiver PN code sequence, wherein the first receiver PN code sequence is associated with said interceptor threat level, wherein correlating the first transmitter PN encoded signal with the first receiver PN code sequence further comprises:

correlating the first transmitter PN encoded signal with the first receiver PN code sequence during the first receiver time frame.

19. (Original) A program storage device as in claim 18 further comprising:

correlating the first transmitter PN encoded signal with a second receiver PN code sequence, wherein the second receiver PN code sequence is associated with said interceptor threat level, wherein correlating the first transmitter PN encoded signal with the second receiver PN code sequence further comprises:

correlating the first transmitter PN encoded signal with the second receiver PN code sequence during the first receiver time frame.